

DEVICE FOR MEASURING VISCOSITY AND/OR DENSITY

FIELD OF THE INVENTION

The present invention relates to a device for measuring the density and/or the viscosity of a fluid.

5 BACKGROUND INFORMATION

A sensor system and a method for ascertaining the density and the viscosity of a fluid are described in German Patent Application No. DE 198 50 803. In this application, the use of at least one oscillating circuit is described.

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SUMMARY

An example device according to the present invention may have the advantage that the possibility is created for compensating for effects which impair the result of the measurement.

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It is especially advantageous if the first feedback network is provided as a feedback network having a resonator functioning as a sensor element, as the frequency-determining element, and that the second feedback network is provided as a feedback network having a correction capacitance as the frequency-determining element. It is possible thereby that, when measuring the viscosity of highly viscous liquids, a capacitance lying essentially parallel to the detection impedance, for example, in the form of stray capacities, is able to be compensated for. Because of that, a compensation is possible for the parallel-lying capacitance, without having to rely, for the compensation, on components having bad, i.e., large temperature coefficients or bad drift properties, such as,

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